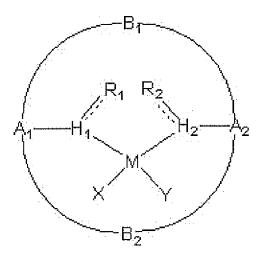
Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

1. (Previously Presented) A composition of matter comprising a metal complex having the following general formula:



Formula I

wherein;

 B_1 and B_2 may be same or different and are selected from -Ar-T-Ar- , -T-Ar-T- and -T-, wherein Ar is an aromatic ring;

T is a saturated or unsaturated, cyclic or acyclic, chiral or achiral hydrocarbon group with from 1 to 10 carbon atoms and one or more carbons in T may be replaced with one or more heteroatoms or groups selected from O, S, SO, SO₂, NR₃, where R₃ is H, alkyl (C1-4), cycloalkyl (C3-6), aryl, aralkyl and acyl (C2-6);

or (SiR4R5)n, where n is 1 or 2 and -Si(R_4R_5)-O-Si(R_4R_5)-, where R_4 and R_5 may be same or different and are selected from alkyl (C1-4), cycloalkyl (C3-6), aryl and aralkyl;

 A_1 and A_2 may be same or different and is a saturated or unsaturated, substituted or unsubstituted, chiral or achiral cyclic ring structure, for example, a cycloalkyl or

where, Z is selected from O, NR₃, S, CR₆=CR₇, CR₆=N and N=CR₆ and when R₆ and R₇ are H, then the ring may be optionally substituted with one or more substituents, Q, selected from H, alkyl, alkoxy, amino, carboxy, cyano, halo, hydroxy, nitro and trifluoromethyl and R₆ and R₇ may further combine to form a cyclic ring, optionally substituted with one or more heteroatoms selected from O, N and S and may contain at least one doublebond;

 H_1 and H_2 are independently selected from any one of the heteroatoms comprising N, P, O and S and these heteroatoms can be either in neutral form or exist as the corresponding anion when protons linked to said heteroatoms are removed;

R₁ and R₂, connected to H₁ and H₂ through either a single bond, a double bond or a combination of both, may be same or different and are selected from alkyl, aryl, aralkyl, optionally substituted with alkyl, alkoxy, amino, carboxy, cyano, halo, hydroxy, nitro and trifluoromethyl or R₁ and R₂ may combine through an alkylene or substituted alkylene bridge to form a cyclic ring in case of bidentate ligands (Appendix 1) and one or more methylene groups of said alkylene bridge may be substituted with an heteroatom, G, selected from O, P, S and N or an heterocyclic ring containing such an heteroatom in case of tridendate ligands;

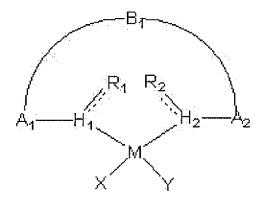
R' and R'' are alkyl, alkenyl, aryl, aralkyl and cycloalkyl;

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X and Y are selected from halogens, pseudo-halogens, carboxylic acid esters, amino, substituted amino, alkoxy or aryloxy group; and

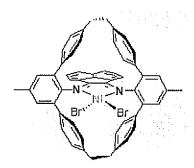
M is a transition group metal ion or a main group metal ion and is selected based on the type of ligand and comprise Fe, Ru, Os, Rh, Ir, Ni, Pd, Pt, Cu, Zn, Al, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo and W.

- 2. (Presently Amended) A composition according to Claim 1 wherein the aromatic ring <u>Ar</u> AR is selected from the group consisting of: phenyl, furyl, thienyl, pyrrolyl, indolyl, isoindolyl, pyridyl and naphthyl.
- 3. (Previously Presented) A composition according to Claim 1 wherein B_1 , B_2 , A_1 and A_2 comprise phenyl rings and the linkages from B_1 to B_2 to A_1 to A_2 to B_1 are through either the 1,3 or 1,4 positions of each ring moiety.
- 4. (Previously Presented) A composition according to Claim 1 wherein B₁, B₂, A₁ and A₂ comprise a heterocyclic ring.
- 5. (Previously Presented) A composition according to Claim 4 wherein the heterocyclic ring has 5 members and wherein the linkages B_1 to B_2 to A_1 to A_2 to B_1 are through any of C_2 - C_5 .
- 6. (Previously Presented) A composition according to Claim 4 wherein the heterocyclic ring has 6 members and wherein the linkages B_1 to B_2 to A_1 to A_2 to B_1 are through any of C_2 -C6.
- 7. (Presently Amended) A composition having General Formula I of Claim 1 whherein-B₂-is absent, such composition having General Formula II, as follows:



Formula II

- 8. (Previously Presented) A composition according to Claim 1 wherein the complex comprises a cyclophane-based Ni¹¹-α-diimine complex.
- 9. (Previously Presented) A composition according to Claim 8 having Formula III as follows:



- 10. (Previously Presented) A method for preparing an polymer, said method comprising the step of:
 - A) reacting at least one monomer or prepolymer in the presence of a catalyst comprising a composition according to Claim 1.

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- 11. (Previously Presented) A method according to Claim 10 wherein at least a portion of the reaction in Step A occurs at temperatures in excess of approximately 50°C.
- 12. (Previously Presented) A method according to Claim 10 wherein the polymer is a polyethylene.
- 13. (Previously Presented) A method according to Claim 10 wherein the polymer is a polyolefin.
- 14. (Previously Presented) A method according to Claim 10 wherein the method comprises a gas phase polymerization.